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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE 5092 115931 10/613,100 07/07/2003 Koichiro Nakatani **EXAMINER** 06/29/2004 25944 7590 TRAN, BINH Q OLIFF & BERRIDGE, PLC P.O. BOX 19928 ART UNIT PAPER NUMBER ALEXANDRIA, VA 22320 3748

DATE MAILED: 06/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	V V
	10/613,100	NAKATANI ET AL.	Ų
	Examiner	Art Unit	
	BINH Q. TRAN	3748	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a a reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON atute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	ication.
Status			
1) Responsive to communication(s) filed on _			
2a) This action is <b>FINAL</b> . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allo	•	·	its is
closed in accordance with the practice unde	er <i>Ex parte Quayl</i> e, 1935 C.D	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-28 is/are pending in the application	ion.		
4a) Of the above claim(s) is/are without	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1</u> is/are rejected.			
7) Claim(s) 2-28 is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	Application No  received in this National Stag	e
Attachment(s)			
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)	
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 06/25/2004.</li> </ol>	r=-1	s)/Mail Date nformal Patent Application (PTO-152)	

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claim 1 is rejected under 35 U.S.C. 102 (b) as being anticipated by Eguchi (Patent Number JP 406033735A).

Regarding claim 1, Eguchi discloses exhaust emission control system for purifying exhaust gas emitted from <u>at least one combustion chamber</u> of an internal combustion engine (10), comprising: an exhaust passage that comprises a first exhaust branch passage (e.g. 12, 14, 16) and a second exhaust branch passage (e.g. 12, 14, 16), which join at downstream ends thereof into a common exhaust passage (e.g. See Figs. 1-3); a first NOx catalyst (e.g. 17, 18, 19) disposed in the first exhaust branch passage; a second NOx catalyst (e.g. 17, 18, 19) disposed in the second exhaust branch passage; a particulate filter (e.g. 13) disposed in the common exhaust passage and located downstream of a joining point of the first exhaust branch passage and the

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second exhaust branch passage (e.g. See Figs. 1-3); a first flow control valve (e.g. 21a, 21b, 22a, 22b) that controls an amount of exhaust gas flowing through the first exhaust branch passage; and a second flow control valve (e.g. 21a, 21b, 22a, 22b) that controls an amount of exhaust gas flowing through the second exhaust branch passage, wherein each of the first and second NOx catalysts stores NOx contained in the exhaust gas when an air/fuel ratio of the exhaust gas flowing into said each NOx catalyst is lean, and allows a reducing agent to reduce and remove the stored NOx when the air/fuel ratio of the exhaust gas flowing into said each NOx catalyst is rich; and the particulate filter traps particulates contained in the exhaust gas, and oxidizes and removes the trapped particulates (e.g. See Abstract; and Figs. 1-3).

## Allowable Subject Matter

Claims 2-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

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Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure and consists of five patents:

Rim et al. (Patent Number 5085049), Hirota et al. (Patent Number 6708486), Hirota et al.

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(Patent Number 6212885), Nissan Motor CO. LTD. (Pub. No. JP 2004028030 A), and Hirota et al.

(Patent Number 5974791) all discloses an exhaust gas purification for use with an internal

combustion engine.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (703) 305-0245. The

examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (703) 308-2623. The fax phone numbers for the organization

where this application or proceeding is assigned are (703) 872-9306 for regular communications

and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0861.

BT

June 25, 2004

Binh Q. Tran

Patent Examiner

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